

09/990,613

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Filed

November 21, 2001

provided in SEQ ID NO: 32, and is shown in FIG. 11. In another embodiment, the present invention provides a luciferase reporter construct driven by MUC5B sequences –1098 to +7, relative to the site of transcription initiation (*i.e.*, the MUB5B-b1 reporter construct). This promoter sequence is provided in SEQ ID NO: 31, and is shown in FIG. 10.--

REMARKS

All amendments to the Specification, including the replacement FIGURES, are to correct typographical and clerical errors. Amendment to FIGURES 10, 11 and 12 are to correct clerical errors in depiction of the termini of the nucleotide sequences. Evidence in support of these corrections is found in the Specification in TABLE 3 on page 67, which provides the correct termini positions for the nucleotide sequences provided in FIGS. 10, 11 and 12, in TABLE 2 on page 64, which provides the correct terminal nucleotide sequences in the PL1, PU2, PU1, PiL1 and PiU1 PCR primers, in FIGS. 6A-6H and 8, which together provide the complete MUC5B genomic sequence indicating the transcription start site (+1).

Amendment to the numbering of the views in FIGURES 6 and 11 are made in accordance with 37 C.F.R. § 1.84(u)(1), which requires that a single drawing consisting of multiple sheets be indicated by a number followed by a capital letter. In accordance with 37 C.F.R. § 1.121(d), marked-up copies of the originally filed drawings showing the proposed changes in FIGURES 6 and 10-12 are attached. Amendment to paragraphs 30 and 35 are made to reflect the corrected numbering of the FIGURE views.

Support for the amendment to paragraph **149** on page 46 is found in TABLE 3 on page 67, where the correct SEQ ID NOs are shown.

None of the amendments to the Specification, including the Drawings, constitute new matter.

SUMMARY

Applicants respectfully request entry of the above Amendment. Please charge any additional fees, including any fees for extension of time, or credit overpayment to Deposit Account No. 11-1410. A duplicate copy of this sheet is enclosed.

Appl. No.

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Attached hereto at the APPENDIX is a marked-up version of the paragraph in the specification indicating the changes made to the paragraph by the current amendment. The attached APPENDIX is captioned "Version with markings to show changes made."

Respectfully submitted,

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Dated: 166 1741 2002

By:

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Deleted text is shown with strikethrough and added text is shown with underlining.

Version with markings to show changes made

IN THE SPECIFICATION:

Paragraph number 30 on page 9 been amended as follows:

--[0030] FIG. 6 FIGS. 6A-6H shows show 22,773 basepairs of human *MUC5B* genomic region isolated and sequenced from the Cos-1 genomic cosmid clone. This 22.7 kB encompasses 4169 basepairs of sequence upstream of the transcription start site, the 5'-UT and the 30 exons/introns upstream of the *MUC5B* large central exon.

Paragraph number 35 on page 10 been amended as follows:

--[0035] FIG. 11 FIGS. 11A and 11B shows show the MUC5B genomic nucleotide sequence encompassing positions -4169 through +7 that were subcloned into the MUC5B-b2 luciferase reporter construct.--

Paragraph number 149 on page 46 been amended as follows:

--[0149] The present invention provides MUC5B reporter constructs suitable for use in drug screening protocols. In one preferred embodiment, the present invention provides a luciferase reporter construct driven by MUC5B sequences -4169 to +7, relative to the site of transcription initiation (*i.e.*, the MUB5B-b2 reporter construct). This promoter sequence is provided in SEQ ID NO: \times 32, and is shown in FIG. 11. In another embodiment, the present invention provides a luciferase reporter construct driven by MUC5B sequences -1098 to +7, relative to the site of transcription initiation (*i.e.*, the MUB5B-b1 reporter construct). This promoter sequence is provided in SEQ ID NO: \times 31, and is shown in FIG. 10.--

 W° DOCS EJD UC072.001 UC072.001A PRELIMINARYAMENDMENT JOCC010202

#12

FIGURE 6A

1	ggtacccctg	gttgtgcctg	tagataagtg	ggccagggtc	taagggotgt	gaagactsaa
61	catgodocca	cotgotactt	ctgaacacca	ggcactggct	ctgagacccc	agggaattga
121	tggacatoto	cccaggtgta	atgggasagg	ggabaggggb	atggadataa	cascacccag
131		poogtoapot		oogaggooog	gaacaccttc	stgatgggsa
241		tggacctgtc		ababgatggg	acceteggee	catcagcagg
301		ggagogtgog		taaggootoo	accccaggag	ttaaaqqaac
361		ggagsaggag		tagaggatac	cacacagota	ocactooota
421	toocoagoac		atggatatga		tggggsétgg	stotgagsag
4-1			ttgtgacccc		cotgacacco	caggigicca
541	gogtggagot		tragtgrotg		gabootgggg	cooggotoag
601		otgatggaca			gcaccgctgt	ggtoggggga
661	ggggagggst		gggaacccag	=		ggtggccaag
1	cootocaggt		gotgaggggo			acagcagatg
61		toactggtgc		totgaagggg	tatgtggggt	cotggaoggg
- 41		tggcaggatt		gggttatgtg	tggtccaggo	ageceetttg
901		cocotggoca		pagtgapppa	cocaggetg	ggaatggata
361		agagoogoag		tggcacgtcc	gaggtgggag	gataatatga
1001		gatgtgaatg		ooggoaggaa	aaggatgtgt	
1051		otgitticag				aaacacgotg
1141		coogactocc		oogggatgto	toaatagotg	
1.001		gacccctgcc			aatqqqqqqqt	otgooogggg
1361		tgggagggac			casttgtttg	
1321		ccactggogg			aggoggggag	
1381		gogggacag				tggagaaaac
1441		tgatgcagag			ggggggagg	ggagaaaa
1501		godagodddo			cogtogtoag	
1561		tgggggccag				
1621		gagotggago			gtcacgaggg	
1681		tagacagata				
1741		tgedagtgeg				
1601		otggagoagg			gtotggotgg	
1861		cacgagooda				
1921		ccaggoatge				
1981		gtgaaagaga				
2041		gtggggtggg				
2101		gagatotggg				caggoagaag
2161		gocotgagtt				
2221		dadagdootd				scatgagggg
2.181		caaaacgggc				taaggaaata
3341		acgttotoac				
1401	accatoccct	otgopagess	otggogodda	odgtobabab	taggtatata	ogggtttcat
i a K∙±	gactocaggg	gcagcacacg	agtiggoooct	- potgootttg	taatatatat	- poa potigiost
2021	cactotgoac	agtgtoccca	gottododda	tiggagicagics	tgggccagcc	Cotootttto
.15-a1	acggotgaac	ogtattocac	ogcacggato	agostbacga	tgotgacoca	gtostoogss
Joil	caqqqacaca	tagacaactt	atabasttta	toadtdatdd	tabtataaab	atdaatatas
2701	aaatgtooct	caggacccgc	ottoagttot	totggggaba	gacccagagt	ggagttgetg
2761	gtcabcccca	ccagcagggc	adagggotod	gggtocccac	gtototgoda	ababttoota
1801	cttootgtgt	caggaccago ccagcagago ttottgatco	pagapataat	attgagogtg	agacaggtca	gaagetttga
_ 0 C T	agatggggtt	togictigic	ccagaaatcc	-bacctctaag	aatttaactt	caqaaaqaca
. 1.1	aacgeggggg	agotggtgca	gggbbbggtga	oggggactgt	gacgtaaata	aaacaacaga
$\cdot \cup \cup 1$	cotggacacc	accotagggt	ccccatgggg	ooggacgagg	ccacaccacc	agabotggtg
(Je 1	attestgest	ggagtatgag	ccacggagca	ttcaggacgc	tggtgaccag	ggagecagga
:121	ggtgggagca	totgaggtgc	aggtcacacg	ggcaggaggt	gtttgcaaga	ggtattgcag

FIGURE 6B

3191	cgcggacgga	gtgtoctgca	gatgacgotg	tetgtestgt	agatgacgct	ogtoaaggag
3241		tagececegg				aggettetge
		tggggcaggc			aggacccccc	
3361		cctgccaggg			tgaggtggag	
3421		ggagostotg			geattggaea	
3481	2 2 2	tgcatggcca			tttccccttg	
5541		teageceaga			gggatatggt	
3601		gaaatagago				
		goatgootga			agccacccag	
		ggagotocag				ggotaagoag
						coatggtoag
		tgotgoodag				agtgggggtg
		aggotggotg			tgogtocaag	
		gotttgocat			ggtaggooot	
		gaagotgotg				agagotgoaa
		atccaggoot			cccgagagca	
4081		ggaagagcac			atggattggg	
		aagotggggo			ggeooggete	potocotgoo
4001		cocccacccg			goooogagog	ogogooggao
4161		gototggogg			gcaggtaaga	goooccaat
		togatgotgt			paggtogott	gootgggago
		gagtgcacgg			otgagtgtoo	tggatgggad
4441		cocaacacag	ggatatgggg	ccccaogggc	toacagtgto	aggaaastca
4501		tggatggggt			otgabbgbag	ggcaaggccc
4561	ctgggagacc	accgaaaggg	tattggtatt	gggggtggga	caggagtggg	caatggggga
4621	gggggtcaca	gotgggggto	tototggage	occatgaggo	ocaggoatca	gagtgagcag
		agogtggacc			cccttcacga	
4741	gatoacagot	ggcagggcag	gtgagggtac	oogggaccet	caagggttgc	acagocagoo
4501		oggootbaab				goatotoatg
4561		tgestggets			gtotgotgto	
4901		ttaatastta				
4981		caggotggod			ocatgacecg	
5041		ttggggtatg			otggggtoto	
5101		getgggtggt			ggattacaca	
51.61		oggggggage			gggggatggt	
5001		cttgcatctg			attggatasa	
5.751		ctagggacto			tootocacgo	
5341		aagcccttgg				
5401	cadadaaada	agocotgoão	agagbagett	catattadaa	gacacacccc	
5461	aataactaat	ggtgggdast	tototaaota	caadatadaa	doboadataa	
5521	adadddaact	goabggagoa	gataaccaad	ggcagtcagc		aaaaaaantan
5.5.6.1	ctagagagaa	ggggttgeet	gaattagaaa	aaaaatatat		
		gaggggdtgt				
5701	tarartara e	aggggotgcc	tarararaaaa	מהרתה ההתרב	Tanaatanar	aattaratta
5761	בינו בינו בינו בינו	gcagggctgt	naartataa.	errterert	חרתפרלרפתר	
F 8 1 1	tttatataaa	aggoagtoaa	- deformation			
55.61	art namer man	cotggotgga				gooobagae
F. 7.11	-20073073337 -20073073337	otgagocotg	annathrith			
6001	caramamamt.	otoagatoag	materage	שמיר לרוברה.	ggoodagga	
		otgggoagac				
		octocatggg				
6161	addadasatt	gggcggccat			adattaadad	anagaaaaa
6941	3333343616	octgooccac	togozatasa	ttammetata	atteasast	goodayay.c
6301	ttanatttat	antaantoso	acataassaa	otoreoxtxt	grocyadadi	ggccccgcgc
U D U L	ccayytttut	gctaagtcac	yeerygaagg	ululaay. Ji	guduuddtaa	caaagstggt

FIGURE 6C

6361	ctttgtcctt	ctccaaggga	tgtgtgggat	ggggcgaaat	accedettgg	ggoggosaac
6411		gattccattt				
64:1		acagggcagg				
6:41		gotttocata			Satistgegge	
5601		gaggatgggg			cagtgtgtig	
6661		atggagaccg			ggatgaagaa	
6721		gtggttgggt		cagocadato	tagtteetea	
6351		ccacagagac			gotgggggaa	
6541		geggtatgtg		3333433333	gttootgasc	
6301		tgggatgggg			cagocatgog	
6361		ggtasastgs		acccagcacc	cgaggcggag	
7001	caaagaagag	gaaagtgcag	agcagagaga		gaagcacacg	
7631		cocacactta			cacacacagg	ccaaaacaca
7141	agggdagdag	tgtttgtggg	gcagacaggg	ccaagggtaa	aggggstgss	
		ttgggataca			gaggagggtg	
		tgattassat			tgaccagcct	toacccacag
		gtootogood			todaccogto	actgtottoo
		cogtaagcag			gaagggggtg	tttgccagtc
		gggcccagat			aggtggggcc	gttgggccag
7501	acccagagto	ctccgtgtgg	goggtotoot	ggtcactggc	caccotgggg	gatggggacg
75.61	ggtcaggggt	cttggagcaa	aacagacgca	gtocagggtg	agocaggoag	ggcacagcca
7621	gcagoogaco	atgggctttt	ccattccasa	aaccagggtg	cataggassa	
		ggotggoatg			otococacag	occtgaaccc
		gggegggtgt			cactacaaga	
		agattacatg			totgagoact	googogoogo
7861	otacgaggac	ttcaacgtcc	agotaogoog	aggestagtg	ggotocaggo	otgtggtcac
7311	cogtyttyta	atcaaggccc	aggggotggt	gotgaaggog	tocaacggot	cogtoctcat
7931		oggtgagoog			gggoogggoo	
		adggddatgt			ggtggggttg	ggtgggcagg
8101	cagocaggag	ageggggese	agggagagac	acagatgtat	gogoagggag	gagotgoott
3161	abagoogbac	tggcatactg	gtggagcaga	goggggaota	catcaaggto	agcatooggo
8001		attoctgtgg			ggtgaggaag	caccatages
8081		teaggeetgg			gtcgagggat	gootoootgg
3341		acggggcttg			gatcagaggt	cotgaggotg
8401		tesecastet			atacgccaac	
8461		ggacttcaac				
8521	5 555	tgagggggg				
8581		agggggcgga				
8641	gtgoodtada	tggtgggagg	agtgoodoto	gggggtgttg	ggoootaggo	aggagtggga
		otgggotbag				
		eastgattta				
		gttggatggg				
brel.	geaactgcac	ggacgaggtg	agtococcgo	caddoccago	tootgggoag	ggaoggooto
8.741	caggtocagg	gggagetggg	cogaggtotg	aggaatgtto	ccagotygty	gagagatggt
9001	godattggag	ggaggccggg	cagocaccct	atgtgtgata	agttccacgg	tabababtgt
3961 6161	cogagtgtgg	tgacgtgcgt	gttcatcagg	obabgogtgt	goodatotgt	gtgagcaaac
3.1.1	acaggoocat	gotgoabagg	ctgggctgag	ggtgggcact	ogggaagoco	ggagocagoc
		gcaggtggac				
34.91 0503	ggatototga	goottaaatt	gegeegtgaa	tgacagcatg	agesesectg	tgagotgggo
2001 6001	coogragoog	geageeetgg	gootggggad	ggaggacact	cagcactgga	otgoootgaa
2351 6401	cougadaga	tgcccagaga	ygoggggoot	coadctocco	tastiggata	agactastgg
9421	garaaaaatc	tgcacctttc	traggagatt	actocacggg	caggoacato	cggagtaggg

FIGURE 6D

9481	gatesegggt	tgacgggtca	ctccccaagg	gccaagcaga	gototgoatg	gccacagtgg
3541				cccgacaggg		
3601	otgobatggg					
3601	tggcccactg	tgotooccad	gaggggatgt	godacogoac	satastaaaa	coddoottta
	oggagtgoca					
	gaagatgaaa					
	esepggggeea					
9901	ttogocaggg	attotoccao	agagaagggg		accttaaaaa	ccactaggg
3361	tggggaggoo	tagagassa	agatagaaaa	Cadaddacco	acccaddea	tagtggggg
10021	aggodacccc	addaccccad	gaddagataa	aassassaaa	ggotgoaggg	
10051	cttgtggaga	ggettgtgea	goagataaca	4444554444		
10141	cgatgagggg	categadae	accetagase	ctagototag	ottotataaa	ottaataasa
10201	tgtggaaggo	catadaadac	aastaaaast	gaccacadg	gcaqtacagg	gaaattaaaa
10261	tggcccagoo	pagaataatt	ttacacaacc	STREET	cootcaacat	gcagcaccag
10301	gägtgtggat	pappotadad	gracacetre	tocaacooco	адодододоа	antotacaaa
10391	gaccactgtg	tagacggcta	attatrasaa	adaddaatd		
10441	cagggggctt	teagateset	gotoccaaco	aaaaaaaaaaa	aataataarr	cotggaagca
	gagoooctoa					
	agggtgctgg					gagocagotg
10631	ggcatggtgg	ggaaactgag	decearant		dat ddaaddd	
10681	aggeggggg	caatatosta	gaggaggaat	tootoocoaa		ttataaaaa
10741	ggooggtgto	ttotgacott	aatatabasa	gtgcatgggc	- Saacestace	tida padadaaa
10501	coccacaggo	acaataataa	atracatoac		tabatabaa	r drenrrrr
10361	cocctgcacc	сасадсадсь	gcacctacag		toottoaaca	
10931	ctcctggtac	ttatgagece	accadostos	acataaaata	aaatataaaa	
	ttatgaaccc					
11041	agectecgee	tacaataaaa	atataasaaa	taaaaacaaa	of octobers	nat moderate
11101	otgotoacgg	aataaataaa	- carcacetac		tatoroanto	ד לבר פעד פרר
11161	cogtgocatg	acapetrata	tatacaaaaa	aaaaccaaca	totocacota	tratmamaaa
11221	ctotacgase	tacataataa	atacaactac	antahatasa	Page Service	rrangagaga
11291	gtottcagac	acccagaccc	testaggaes	otcatoccas	ttocaccoar	gggaggccc
	cacgatggtc					
	ggtcatagag					
	gagacaaget					
11501				ggggggaac		
	caatgcacgc					
	tgagotgogg					
	cotggaoggo					
	catgogaagg	tatataaaaa	асавасвоат	teadateese		aaaaccaaat
11801	popopotopa	accccaaac	caccctraccc	tocadocco	aggthaggth	
	cootgaggto					
11941	gattatatgt	aggetetate	cocastadas	apopotadas	aggocaccc	ctcatttgag
13001	agtogggaat	agattastas	ccadadetda	catacaaaaa	gesteattes	graggrata
13061	ogggtosaag	cadacadcad	eatatteete	aastssatst	acacacaaact	accoctatea
12121	gcaggtatgt	agatatasaa	adabadabad	astagataas	acetaettae	addddcadct
12181	cocacageet	gaggaggata	ogotopatop	otgotagtto	tocataacat	
12141	daggagátba	statastsaa	tttataxta	adadadtada	aataccaaac	taababbba
12301	geageggeag	ggabbbbaba	todagotogo	toaqooccac	tototoaddd	ageocaatict
12361	ccacctgage	coacttqqcq	godadaggda	tagaabaaaa	adootdaddd	otootaacca
12421	atactgggta	teactocoda	atotoaataa	aataaccca	cccactadat	accetacee
1.2481	tocaatotag	ccagatetat	cootgoacco	etgaceggee	totocccac	actocoggoa
12541	gecaacatca	coctattcac	accetegade	ttottoatco	tagtacadac	addoctoddd
	-	-	2 2 .	2	22 2 2	22 222

FIGURE 6E

12601	otgoagotgo	tggtgcagct	ggtgccacto	atqcaqqtqt	ttqtcaqqct	ggaccccgcc
12661		agatgtgcgg				
12771		gastagsgss				
107:1		tgcccccagg				
12:41		gccccggaag				
12971		tttgcacagg		gjäjäggggg		
13361		ttatotgcag				
13001		gtgtggtgsc				
13981		acatocccca			gtgggaactt	
13141		acttcacggo				
13211	aacacctgga	aggoocaggo	tgootgtgoo	aatgccagga	acagotttga	ggabobbbgb
13261	tocotoagtg	tggagaatgg	tactoctogo	2222222222	adagtoacco	caggotoaag
13301	toccacccag	capottootg	toccotgggo	cacggggacc	cotgggtggg	attggggacc
133÷1		aggtgggagg				ccagaacccc
13441		gcaggtgagc				gagggggtog
13501		tgtcaggggt		gggcagggcg		
13561		aactacgood				
13601		cactocatoa				gotgaggoca
13681		cotgggcagg				
13741		ccacctccgc				
13501		tgogoogogo				
13561		tggagggacg				
13921		gggggtgcgg				
13951	agoccagago	tttgdacttc	otcatoccag	cotogoaaga		
14 41	ccacqtcaca	gacggggatg	otgagttgaa	gatgggggot	ggocaggotg	ataggaagat
14101	gadotgtood	acatggaaca	accgaccaca	godaagtada	tgcagaactg	ccccaagtcc
14161	cagogotacg	cotacgtggt	ggatgootgo	pagedeactt	gaagaggaat	gagtgaggcc
14221	gaegteacet		ottogtgoot		gcacctgccc	
	ttootcaatg	acgogggogo	atgtgtgada	gescaggagt	goodotgota	ogotoaoggo
14341	accgtgctgg	ctcctggaga	ggtggtgcac	gacgagggcg	cogtgtggta	agggtotggg
14401	gggaaagcag			agocacttcc		gaaggottot
	gtgaataaac	cogagggtto	tgagacacga	ggggccaggc	tggggagagt	ggggcagggt
14511	ggacccagca	cattotgaag				
	gocotgggag	gadaddtgot	ggotgttata	agotgggtoo	acatggcagc	cootgodagg
14641	aaaggtgggt			gotoaaaggo		occagggtoc
14//1	tggatgattt	gatgasssa				
	toccagoaaa	cacagoagoa	ggcaccgtct		ggaggtggcc	aggotgggga
		toggaggggg			gtotgogggg	
	agatocaggo		gtotottgta		gggtgggaag	
14941	tgggagcoto	totgoagaaa	agcacaggta	agtgooacco	otgoootgoo	atgassages
15001	ocgoatdadd	acgestages	tggccccaac	adgodddadd	atgadadaad	ccacctgaac
15001	aatgaaggga	caggicagic	otoacotggg	ototgodada	ggcacccatg	obotgababg
15121	ocagggacgg	aggggccagt	gggtatatga	coogcagtgt	aaccaaaaaa	tootggggtt
15171	gggggetgea	ggtgtcatgg	aagotttggo	togggggotg	ttaacttgat	cagcaggaca
152-1	ggotoagggo	tgootggggt	cagttgaggg	abgtggatga	cottocccag	gaddddtadd
100.1	accaagotot	gtooooaggg	tgtgdagddd	ccatggtgta	octggactgc	agcascaget
1:301	oggogggdad	ccctggggcc	gagtgootoo	ggagotgoca	cacgotggac	gtgggctgtg
1:41	ugagttocat	gottcaggga	ggggtgggca	gggaaggggt	cccagottto	ccageteeeg
1:451	agoodaggga	totggtggto	coggagadad	ttacccacct	ggaageteeg	coctggooda
15041	ugagatgada	tgggtgctgc	tgggtgegee	tgtocoagag	ggtgagtgac	atotgoodad
100VI 15661	taaamatata	agccctgacc	ggtacctgcc	tgggccccac	agttcagcac	acactgcgtg
10001	rooggetgtg	tetgteecce	ggggctggtg	reggatggga	gragagacta	cattgccgag

FIGURE 6F

15721	gaggactgcc	cctgtgtgca	caacgaggcc	acctacaage	ctggagagac	cateagggte
15731		cstggtgggt				
15341		gagggtgggg				gagggsaggg
15931		ccagggtgag				
15961		gtgegteste				
16.21		gtgdddtgda				gaggagggt
16151	caggotgggo					
16:41	ctcaggaagg	codqqaqaqc	adddcotat		cattgtggcc	
	cotgoaggaa					tgagtggaat
16161	acggggatgg	coacttcato	addtttgatg	gogatogota	cadotttdaa	
16311	agtacatott	ggcccaggta	2302323002	tegeesasts	opadagaa	ggcacactcc
16:91	agecegegge	cagcagottg	tataittata	goodaggact	actutuuua	Caacaccacc
	cacgggacct					
	tocaaggoca					papopopgap
16561	potgoagoda	addadadda	Doodaaqaaa	actteatasa	gotttagotg	cacccacagg
16621	ttotoagoag	tatootaaoo	obadactact.	attocaadca	godadaaadd	agggggstta
	gacaacagaa					ogggoagggo
	cacactosot					cacaggoggo
	aggegteest					gtattatata
	tättttata					22222233
	occoacgtag					
	tgatttätaä					gadaggdatt
17041	ttcaggagee	acqattcacc		tagagacacc	cactocarca	aaggggggc
17101	agagotocca	aggaataaag	cadodoodot	aaccaaaata	otocotocao	
17161	gggstgagga	ocaceacaaa	toadaddaada	ataatataa	בבבבים לביבים	
17551	ggatggggag	caddatadaa	taasataaac	ctacticaic	atataataat	cocqtqcaqc
17331	cocaaggtto	ccadacadca		adacttacta		tgobasabot
17341	tcactgaggg	totoacogac	coarctcacc	actaaccca		constant
17401	gtgogoacot	gcagaggast	adapadada a	taaataaata	tharmonat	ccctgggggc
17:61	cacagggtog	acttecaaca		accet geaga	dore a de	antantana
175.1	gaggggacct	ttaagggggt	aabaaaaaaa	בהבד להדבר	annoannota	naamatanmi
17581	tacatgggga	tattaataat	- catodagado	cacaaaataa		בפפררייפטר
17641	accagogtgt	teatecract	gcaccaggac	tabaaditaa	getogggeeg	
	ggccctgcag					
	togotgaeco	ataaatacat	aaaaataaat	aataaaaaaa	ataaatataa	cotoracade
17821	gggcagagga	ttttacadad	aadcaddtad		- addadadagg	дасселетис
17881	acacotytot	cotacaaatt	caccaddcac	tacctagaga	accadetace	atacatacat
17341	popopgaggg	atotagaãos	caddatadac	totatactac	at dada daga	ביי ליי ליי ליי ליי ליי ליי ליי
18001	cocagotoca	addoocact	atatagatga	ototacaaaa	caddatetae	arestatasa
18061	ggaaottoga	ogadaatadd	atbaatdabt	ttaccacaca	tadocaatoo	ataataaaaa
	acgeactgga					
	ccaaggaccc					
	toctocacgg					
18301	cagggtotgg	tadadatado	aditdettee	ttaaaaaaaa	gaactiggt	ttataaaaaa
18361	acagoagogo	tocaaddadd	gtotgaccat	atoocacaaa	acacagtoot	adatathaada
18411	toccaagtoc	ggateteesg	ticadecesae	adatataaat	attacacata	
18481	atottggotg	ttteeeaace	actostttda	coacagests	agteacacco	agagggthan
18541	agggagggg	agocototat	atadocesta	accaciontion	totatrator	acadacetos
18601	ccagtoctca	goacaaactd	gaatgocago	otageteeen	gotoagonan	ggaggaatga
18661	gagatotgoo	ctaagcagag	acttocdaaa	aggagttton	tgaetroord	caataaataa
187:1	tgtctgtaat	cocaqcactt	taggaegeta	addcadatad	atcachtdad	at caddadtt
18781	tgagaccage	ctggtcaaca	tagagaaaaa	ceatetetaa	aaaaaataca	aaaatadddd
	, , , , , , , , , , , , , , , , , , ,	J J	JJ J	,		

FIGURE 6G

18541	ggtgtggtgg	tgtgtgcctg	taatoocago	tastagggag	gotgaggoag	gagaatcact
18901	tgaacctggg	aagaggaggt	tgcagtgagc	caagatogtg	ccactgcact	ccagcctaag
18961	casasagagt	gagastetgt	ctcaaaacaa	aacaacaaaa	aaccaaaaag	cagtttcgtg
19001	tcatcttaag	gaagacttga	gtgcccactt	aggcacacag	catggtggst	caggagetga
19071		tggcgtaggg				
19141						
19101		acaaagotga				
19061	tggaggaagc	aggeagette	ccatggtcag	gacgcattca	cagotoagot	accagagtaga
19321		aaggaagtga				
19351		gttatgggat				
		ggcagaaagg				
19501	cotggooggg	ggttggttcc	gotggaggga	aggoooccag	gtggaaagga	ggooagtacg
19561	aptgdagdgg	agggaggtgg	dddadadda	agagggtaag	cagggggtgct	atgotocaca
		acctgtgggc				
		caggoagatg				
19741	gasaggtggg	cagatgggca	ggtgggagg	gatataggtg	gacgaggca	
		tggggdagdt			aggtattoca	
		otgobatggg				
		catageoggg				
		tocaccaagt				
20041	gggtggcgac	tgogagtgit	totacacaac	tataaataaa	tabgoobagg	cotaccacaa
20101	agagggaatg	tgtgtgtdat	qqqqqaataa	ggacacctgc	eqtqaqteqq	actotatoca
30161	togtoctoaa	gggtggaget	qetqqqqeaq	adaadaadac	gtggcagcct	
00001	attgacctgg	geetgageeg	cacacagaca	topascacqo		
20291	acaagtttot	atgcacagag	qaaqabotqt	qcaaaaccac	cagadaggtt	gododagoat
00341	gagadagete	ctaggggaca	agagttesaa	gggcagggct	वयववयववद्यवय	gggaaaggeg
30401	aggeacéaec	oggoogaggo	cotquatque	tgggacaagc	coggatotaa	ototagaaaa
20461	accqqccccc	acgeccgggg	tagggggtge	cotqcacaac	aggggtgagg	actaataaca
20521		atatgaaata				
00591		gtggcactac				
20641		otgootggtg				
20701		atatacttgg				
20761		ctcccgtaaa				
20821		gotactocct				
20581		tgotbaccet				
20941		atgaggacca				
21001	ggaaactact	atgacgtcgg	tgcaagggto	occapagegg	agaactgcca	gagotogtga
21061		agegggtgge				
.01101	cccccaggcc	ctcagctcgc	ctotococca	occctagtaa	otgoacacco	agtggcatco
21181		cagoottgag				
31241	ggggccaggg	geteggagge	cotgggtgac	tatgaaggat	coatobooag	cotquadotq
21301	cacctatgag	gacaggacet	adagotadoa	ggaogtdatc	tabaababba	cogatgggst
21301	tggegeetge	ttgatogoda	totgoggaag	paabggbabb	atbatbagga	aggotatage
21401	atgtootgga	actocagoca	caacgccatt	caccttcacc	accgcctggg	tecccaate
21481	cacgacaagt	aageestges	tggatataat	gaggossagt	actgtotqqq	tgacaaqqaq
21541	gaccccctgg	getettagtg	caggtgccct	gtatggtage	gacagtocca	atopactgac
		ctgtctaggg				

FIGURE 6H

21661	cccacgaage	ctcagcacaa	tgattgatgg	gataccccaa	ggagacaata	aagotttoot
21721	ggastesgts	ccatocotca	gcacggccta	toocagocag	ccageteest	caaggccagg
217:1	otgobaggod	coagtocoto	atgcagaaac	ggototaacc	aaggotgagg	caggcactgg
31841	ggtocccagt	atcccacagg	ggcagggcca	goootgggga	aagggtooto	tggggcocct
31931	poapottgtg	aggocaggac	tggaggatgo	tgagccagga	cocctttccc	atgedeettg
31961	caggoooggo	catalaggta	todacogtgt	gtgtccgcga	ggtotgoogo	tggtocagot
22131	ggtacaatgg	gdadogddda	gagoooggoo	tgggaggcgg	agastttgag	acgittgaaa
22091	acctgaggca	gagagggtac	caggtatgcc	ctgtgctggc	tgacatcgag	tgaaggagg
22141	ogbagettee	ogacatgoog	otggaggagc	tgggccagca	ggtggactgt	gaccgcatgc
00201	gggggctgat	gtgogocaac	agocaacaga	gtocoocget	otgtbacgab	tabgagotgo
22261		otgogaatac	gtgocotgtg	gaadatadaa	ggccccaggc	accagocoto
22331	-	cagtgocago				
22391	cogasaagac	caccetatgg	gtgaccccga	gcatccggtc	gabggeggbb	otbabbtogs
32441	agactgggtc	cagotoaggo	cccgtgacgg	teaccecete	ggooccaggt	accaccacct
01501	gecagecoeg	gtgtcagtgg	acagagtggt	ttgatgagga	otaccccaag	totgaabaab
22561	ttggagggga	ogttgagtcc	tacgataaga	tragggoogr	tggagggcac	ttatgocago
20621	agcctaagga	catagagtgc	caggoogaga	gottocccaa	ctggaccctg	gbabaggtgg
22651	ggcagaaggt	gcastgtgas	gtocacttcg	gestggtgtg	caggaactgg	gagcaggagg
20741	gegtetteaa	gatgtgstac	aactacagga	tas		

FIGURE 10

(-	-1098) gcg	ccacggagca	ttcaggacgc	tggtgaccag	ggagocagga
ggtgggagca	totgaggtgo	aggtcacacg	ggcaggaggt	gtttgcaaga	ggtattgcag
cgcggacgga	gtgtootgoa	gatgacgotg	tatgtaatgt	agatgacgct	ogtoaaggag
gtttaccaca	tagecccegg	gaageceace	caacaccagc	oggaggtgot	aggettetge
ggotoccacc	tggggdaggd	ggaggacccc	gggsäggtes	aggacccccc	ggagcagctg
ottootcaac	cotgodaggg	ttaatgagga	ggccccagag	tgaggtggag	gccaaatggg
actbagggcb	ggagoototg	gestagetag	atcagggotg	gcattggaca	agogoagotg
actoocgatg	tgcatggcca	ggagacactc	tgggddtdag	tttsesettg	aatgtgaaco
ttgaaacaga	toagoocaga	gadotoccad	ggtottcaag	gggatatggt	cagotgggct
ggggtatatg	gaaatagagc	otootooagg	gadddddada	agccacccag	actgagcatc
otggodatgt	gcatgootga	gotbagbagg	agootgoogg	gatacaagtg	ggotaagcag
tggtgggagg	ggagotocag	potogtggga	patgabaggg	actaggggac	ccatggtcag
tggatggggg	tgotgoodag	aggotgggat	todattodag	caggageege	agtggggstg
agtgtgaggc	aggotggotg	accaptgttt	ccatggaccc	tgcgtccaag	godagoddtg
cottocagog	getttgesat	otaggaoggg	tgccaggtgg	ggtaggeeet	tatataaatt
obgattotoa	gaagetgetg	adaaraaaaa	agtactgggd	ctcagggcac	agagotgoaa
atcottoctg	atocaggoot	ataccatgas	acagececte	occgagagca	aacacacgtg
getggagegg	ggaagagcac	ggtgccctgc	gtggcctggc	ctggcttggg	godaaggoto
cotgotacat	aagctggggc	ccccagggga	gcaagcaccc	gg (+7)	

FIGURE 11A

(-4169) ccta	gttgtgcsta	tegeteagtg	ggccagggtc	taagggstgt	qaaqactcaa
			ggsastggst		
			āāacaāāāāc		
	pacgtbabbt			gaacacatto	
			acacgatggg		
	ggagegtgeg			accccaggag	
	ggagcaggag	gotgoogagg		papapageta	ccactcccta
	agootggggo		gtacacatcc		
	catocotgot	ttgtgassss			
	ggggcccagc				cooggeteag
tgootggtgg	ctgatggaca	stggggsstg	gotoasacot		ggtoggggga
			ccccagtgac		ggtggccaag
occtccaggt	gtcccccagg	gotgagggo	tgggattggg	geagetggtg	acagcagatg
gtggccctga	teastggtgs	otggacggcc	totgaagggg	totgtggggt	cotggacggg
topopattoa	tggcaggatt	aaccccctc	gggttotgtg	tggtocaggo	agaaaatttg
totopactgo	occotggooa	gaatgaggga	cagtgaccca	cocagggetg	ggaatggata
agactccgtc	agagoogoag	ggcaagttoo	tggcacgtcc	gaggtgggag	gataatatga
gotocaggag	gatgtgaatg	goodoodtto	ccggcaggaa	abggatgtgt	postttaatt
dotttatott	otgitticag	ogoottoaac	tgtgaagagg	tgaadtotto	aaacacgotg
agbaaabagg	coogastoss	agggoogcat	pogggatgto	toaatagotg	tggoottgao
			cocagttocc		
			toggggcccc		gtgtbabtgt
			tocagggtgg		
			tgagggtood		tggagaaaac
			dadtogagot		gggotgotoo
			ogggcacogg		
			actaggettg		
			gagggggat		
			acgtotgoag		
			ogodadagog		coccattigo
			gggagaggg		
			ctctggccca		
			ttocacogtg		
			cccagagacc		
			acaggetetg		
			cocccaccca		
			toacaaagaa		
			gagocacotg		
	apattataa	attonnaarn	cacguegetg tgaaaccetg	taaaataa	0009930363
			cogtocacac		
			cotgootttg		
			tggagcagcc		
			agootoaoga		
			toagtgatgo		
			totggggaca		
			gggtccccac		
			attgagcgtg		
agatqqqctt	tagtattqta	ccagaaatcc	cacctctaag	aatttaactt	cagaaagaca
			cggggactgt		
			ccggacgagg		

FIGURE 11B

cttcctgcct	ggcgtctgcg	ccacggagca	ttcaggacgc	tggtgaccag	ggagssagga
ggtgggagca	totgaggtgo	aggtcacacg	ggcaggaggt	gtttgcaaga	ggtattgcag
ogoggaogga	gtgtootgoa	gatgacgetg	totgtootgt	agatgacgct	ogtcaaggag
gtttaccaca	tagooocogg	gaagoocaco	caacaccago	eggaggtget	aggettetge
ggotocoáco	tggggcaggc	ggaggacccc	gggcaggtcc	aggassesss	ggagcagotg
ottoctcaac	cotgodaggg	ttaatgagga	ggccccagag	tgaggtggag	gccaaatggg
actoagggcc	ggagodtotg	gestggstgg	atcagggctg	gcattggaca	agogoagotg
actocogatg	tgcatggcca	ggagacactc	tgggcotcag	tttccccttg	aatgtgaacc
ttgaaacaga	tbagbbbaga	gadotocoac	ggtottcaag	gggatatggt	cagotyggot
ggggtatatg	gaaatagago	atestasagg	gadodobdaba	agccacccag	actgagcatc
otggodatgt	gdatgddtga	gotcagcagg	agestgeegg	gatacaagtg	ggotaagoag
tggtgggagg	ggagotocag	aatagtggga	actgaaaggg	cotoggggas	ccatggtcag
tggatggggg	tgotgoodag	aggotgggat	tocottocag	caggageege	agtggggctg
agtgtgaggc	aggetggetg	accactittt	coatggaccc	tgcgtccaag	godagodotg
octtocagog	gotttgocat	otaggaoggg	tgccaggtgg	ggtaggccct	tatatadatt
ocgattotca	gaagetgetg	ggggtggggg	agteatggge	ctcagggcac	agagotgoaa
atcottoctg	atocaggoot	ataccetges	abagoodoto	cccgagagca	aacacacgtg
getggagegg	ggaagagcac	ggtgccatga	gtggcctggc	otggottggg	gecaaggets
cctgctacat	aagctggggc	ccccagggga	geaageaeee	gg (+7)	

FIGURE 12

	(-13)		gcaagcaccc	ggeoeggete	catacatgas
agtacaagta	cccccacccg	tgccagcccc	caggatgggt	doccadadad	ogtgooggas
gatggtgttg	gatatggagg	coatgetegt	ggtgccgcag	gcaggtaaga	gasaasast
aagaaaaata	togatgotgt	attamaggag	gagatotota	caggtogott	gcctgggagc
ttotootgca	gagtgcacgg	goagatoooo	stasgastss	ctgagtgtcc	tggatgggas
cotaccogto	cocaacacag	ggetetgggg	ccccacgggc	tcacagtgtc	aggaaactca
ggggatggat	tggatggggt	gtocaggaga	aggtgggccc	atgacagaag	ggcaaggccc
otgggagacc	accgaaaggg	tattggtatt	adadacadaa	caggagtggg	caatggggga
gggggtcaca	gatgggggta	tototggago	cccatgaggo	ccaggcatca	gagtgagcag
gggdaggdtt	agogtggaco	cotgtocagg	accggotota	coottbacga	databatggg
gateacaget	ggcagggcag	gtgagggtac	cogggaccot	caagggttgc	acagocagos
gcaagagccc	aggaataaa	ocacgotoga	atadaaagga	coatotgtgg	grateteatg
cogcacgggo	tgootggoto	toagoogago	gttttaaata	gtotgotgto	tottggooag
agoogoagoa		otgtoaatag	agaaagatgo	agooocaggg	godaooggga
gababbbagb	caggotggoo	atgaggotgo	tgoagooost	acatgacaag	2001009000
cotoccaago	ttggggtotg	ggotgggoag	gtgaggttoo	otggggtata	totocatoty
tggaagggag	gatgggtggt	cagcagggct	ggaggcaggg	ggattaaaaa	agtggotoco
agootgggoo	oggggggago	tgagtatgga	tgcaaggttt	gggggctggt	ttgaccagaa
tagocacoto	ottgcatctg	attottoogg	godatgoago	attggataca	otoacotgag
	otagggasts	teagecease	agtaataatg	tootooaogo	acgtocaagt
tggggagato	aagooottgg	cagggactgt	gotttagtca	ccagatgcac	
oggggaaggo	agocotgoao	agagoagott	catgttaggg	gadadadddd	gtootgtggo aaagtgatgg
ggtggstggt	ggtgggcact	tototggota	caagatggag	goodaggtgg	
		gataaccaag			todagoodaa
ggagggsact otggggggga	gcacggagca ggggttgcct	gggttgggga	ggcagtcagc ggggctgtct	otgggoaggg	gaggggotgo
	gaggggetgt				aggagotgoo
tggggegggg		agggooaggg	aggggotgoo	tgggggtggg	gaggggstgs
	agggetgee	tgoggoggga	googgggogt	gggagtggct	ggttgggstg
gbababaggg	goagggotgt	gagotgtggg	tagaggtgga	ggastsaggg	atoggotggo
tttstgggaa		cotggatoto	tggaggegge	cootgtggtg	gttoccagat
gtoagoagga	cotggotgga	aaagooaggo	agggccaggc	cagagogoga	accacagggo
aggeceateg	otgagedetg	accatgottg	tgggggetgg	ggootcacot	cocacetece
cacagagagt	ctcagatcag	gatocaggga	ggagatatgg	ggtestgtga	agggggggc
ccaacccaaa	otgggcagac	aatggooggg	ggtcctcaga	gtootgtggg	ttggagotgo
stoctoccag	cotocatggg	gttggtggt	gaggoottgo	coggaggogg	tggtdagddt
gggggacatt	ggggggcat		acggccacac	agottgogog	goodagagto
		togoootgas	ttaggatota	gttogaaact	ggttatgtgt
ttaggtttct	gotaagtoac	gootggaagg	otocaagtgt	gtootootaa	caaagotggt
atttgtaatt	otocaaggga	tgtgtgggat	gggggaaat	poppoputtgg	ggoggobaab
goottttoot	_	totoocccat	costtgagaa	ggaggdadda	toppograte
tcagtcgggg	acagggcagg		ggbagbtbag	ggotocotgo	
	gotttocata				
	geggetgggg				
	atggagaccg				
ggccaggtcc	gtggttgggt	togtggctgg	cagocacato	tagttootoa	ctgactccca
	ccacagagac				
	goggtatgtg		ggggtggggg	gttootgaco	aggetggagg
ggctggaatt	tgg (+2738	3)			

marked-up capy

FIGURE 6 A

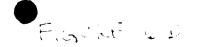
1	ggtacccctg	gttgtgcctg	togotcagtg	ggccagggtc	taagggstgt	gaagactcaa
61		cotgotactt				
121		cocaggigta				
181		paggtagast			gaadadotto	
241		tggacctgtc			accotogged	
301		ggagogtgog			accccaggag	
361		ggagcaggag			cacacagota	
421		agootggggo			tggggcitgg	
381		catocotgot			potgapapes	
541		ggggcccagc			gabbbbbggg	
601		otgatggasa			goacogotgt	
661		gagocaogtg			gaststttgs	
		gtococcagg			gragetggtg	
		toactggtgd			totgtggggt	
		tggcaggatt			tggtccaggo	
901	tatacactac	cocctggcca	gaatgaggga		cocagggetg	
46]	aractocoto	agagoogoag	gadaaattaa	tagogadeaa	gaggtgggag	
1001	agasesegee acticaaaaaa	getgtgeetg	77777777	eerrecrroc	coggotgtgt	=
		atgitticag			tgaactotto	
		poggaptopp			toaatagotg	
		gacccctgcc			aatgggccct	
1261		tgggagggac			cacttgtttg	
		ccactggogg			aggoggggag	
1381		goggggacag				
1441		tgatgcagag			agototgoba	
1501	,				gggggtgagg	
		godagododo				
1631		tgggggccag				
1631	2,2	gagotggago				
		tgggagggtg				
1201		tgocagtgog	aggaacgagg		guugguagee	
1531	apatapaga	ctggagcagg	cayyaayyoo	3333333333	3000330033	ggudugggug
1331		cacgagocca				
		ccaggoatgo				
2041		gtgaaagaga				
		gtggggtggg	egggggggagu	adaggototg	gageooogga	agugagoggg
0151	gaguladguu	gagatotggg	agauuuuuuu	tasasasas	ggcacagggc	caggoagaag
201	ooogaggege	gecetgagtt	adayadaddy	UJabaaayaa	caaagggaga	aggogggtto
0.001	tagaaaataa	cacagocoto	gogototgag	gagocacotg	ggggcttcag	ccatgaggg
001	Lyadaggugg	caaaacgggc	Jagotoogee	cacgrogotg	tgoagotgto	padadasse
0101	Jacoboodga	adgitatead	accoddago	Lyddaoootg	todddatgda	acaccagosc
		otgocagoso				
04 DI	gactccaggg	gcagcacacg	ageggooos	octdocttd	toototgtgt	ada dot gadt
5001	dabtotgcac	agtgtoccca	gottobooda.	tggagcagcc	rgggccagoo	databtttta
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FIGURE CL

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FIGHT LG

27341 gagacagete etaggggaea agagtteeaa gggeaggget ggggagtgga ggggaaggtg 22401 aggeaecaec oggoogagge eetgeatgto tgggaeaage eogggtetgg etetggggae 20461 accygococc acyccoyyyy taggyyctyc cetycaeaac agyyytyagy yetgytyycy ± 3521 corportings obergoods tytigoddag cottyttety tyacttotae aacodaeaty NYSSI ggggotgtga gtggbabtab bagbbbtgbg gggbabbbtg bbtaaaaabb tgbbggaabb 1841 ccagtgggca otgoctggtg gacotgcctg gcctggaagg tgaggggcag cotttcttgg ^{er} 31 atggagooto ototoottgg gttooogagt gtaogtgggg gggaggggat oocoagggac TTG1 goggtgtagg otocogtaaa otgcacaatg caagoottga gggcaggood otgotggotg ITR21 gtggggggg gotactooot goagcatgga goocctggot ggagagacta aagggcootg IMEEL gtgagtotto tgotoacoot googgedota ggetgotado egaagtgood accoagodag 1941 Spottottoa atgaggadoa gatgaagtgo gtggoboagt gtggotgota ogadaaggab 21001 ggaaactaot atgaogtogg tgcaagggto occacagogg agaactgcca gagotggtga 01061 gggggtggga agogggtggo gotgggggag cagggotggg gagcaggcoo tgcaggotgo 21121 peopeagged otpagetoge eteteboodea peoptagtaa etgeacadee agtiggeatee 21181 agtgogotoa cagoottgag ggtaaggaag ggoogggggg ttagtgggoo ggtgaaggot 21241 ggggccaggg gotoggaggo cotgggtgab totgcbggot coatbebba betgcaebtg 11301 babbtatgag gabaggabot abagbtabba ggabgtbatb tabaababba begatgggbt 11361 tggcgcctgo ttgatogcca totgoggaag caacggcacc atcatcagga aggctgtggc 21421 atgtoptgga actobagopa baadgobatt baccttbabb abogoptggg tooccoabto 21401 babgabagt aagobotgoo tygototoot gaggobbagt abtytotygy tgabaaggag 11841 gabbbbbtgg gotottagtg baggtgbbbt gtatggtagb gabagtbbba atbbabtgab \$1401 offogggot ofgtotaggg gfgdaoggod bofoaabaod ofgogfgfof beaggggotb [1661 cocacgaago otcagcacaa tgattgatgg gataccccaa ggagacaata aagottttoot 21721 ggadtoogto odatoostoa gdadggoota toodagodag odagotoodt daaggodagg $\mathbb{C}1781$ otgocagged coagtoopte atgoagaaab ggototaadd aaggotgagg baggoabtgg 21841 ggtocccagt atoccacagg ggcagggcca gccctgggga aagggtocto tgggggccct 01901 obacottgtg aggobaggab tggaggatgb tgagbbagga bbbetttbbb atgbbbettg 11961 baggoboggo botoboggto tobabogtyt gtgtboggga ggtbtgbogb tggtbbagbt 02021 ggtacaatgg gcabcgccca gagbooggco tgggaggogg agabtttgag acgtttgaaa 22081 acctgaggea gagagggtac caggtatged otgtgotggd tgacategag tgccggggogg L2141 ogcagottoc ogacatgoog otggaggago tgggocagca ggtggactgt gacogcatgo INNOT gggggetgat gtgegebaac agobaacaga gtebbbegst btgtbaegab tabgagbtgb NACC61 gggttototg otgogaatac gtgocotgtg geocotocce ggcoccaggo accageocto 22321 ageoctocot cagtgocago aeggagoctg otgtgoctae occaacecag accacageaa 22381 cogaaaagad caccotatgg gtgaccooga gcatcoggto gaoggoggod otcacotogo 22441 agactigggto bagetcagge ebogtgaegg teabcoopte ggbocbaggt accaebacet 22501 godagoooog gtgtcagtgg acagagtggt ttgatgagga stascocaag totgaasaas NAS61 ttggagggga ogttgagtop tabgataaga tbagggbogb tggagggbab ttatgbbagb 11611 ageotaagga datagagtgo daggoogaga gettooccaa otggacootg goabaggtgg 22681 ggcagaaggt geactgtgac gtocaetteg gcotggtgtg caggaactgg gageaggagg 12741 gegtetteaa gatgtgetae aactaeagga tee

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FIGURE 10

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gtttaccaca	tagbbbbbbgg	gaageccacc	caacaccago	oggaggtgot	aggottotgo
ggotoccacc	tggggcaggc	ggaggacccc	gggcaggtcc	aggadoccoco	ggagcagctg
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actoccgatg	tgcatggcca	ggagacactc	tgggootbag	tttadaattg	aatgtgaacc
ttgaaacaga	toagoocaga	gabotoccac	ggtottcaag	gggatatggt	cagotgggct
ggggtetetg	gaaatagagc	otootocagg	gadodddada	agecacecag	actgagcatc
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tggtgggagg	ggagetecag	aatagtggga	patgabaggg	octoggggao	ccatggtcag
tggatggggg	tgctgcccag	aggotgggat	tooottooag	caggagoogo	agtggggotg
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cottocageg	gctttgccat	otaggaoggg	tgccaggtgg	ggtaggcoot	tatatasatt
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gctggagcgg	ggaagagcac	ggtgesstge	gtggcctggc	ctggcttggg	godaaggoto
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marked-up copy

FIGURE 11 A

(-4169) **gýtaxk**ootg gttgtgtstg tegeteagtg ggeeagggte taagggetgt gaagaeteaa catgeoccoa cetgetaett etgaacaeca ggeaetgget etgagaecco egggeettge tggacatoto occaggigia otgggobagg ggabaggggo otggobatoo baacabcbag gagbaagdag doogtbacot goobaggtoo dogaggoobg gaababbttb btgotgggbo caccoagoco tggacotgto cogettygto ababyatggg accotbggob batbageagg tgagoccca ggagogtgog totggootgg taaggootoc accocaggag ttggggggoo congregoray ggagoaggag gorgongagg tiggagggron bacabagora beactoobta topposagoad agoptggggd otggototga gtababatob tgggggbbtgg btbtqagbaq accaagaged datecotget ttgtgacece otgggetgtg cotgacaced caggtgtocal gogtggagot ggggoodago toagtgootg ggagotgatg gabbotgggg bobggotbag tgootggtgg otgatggada otgggggddtg gotdaaaoot gdaddgdtgt ggtdggggga ggggagggt gagccacgtg gggaacccag coccagtgac gactotttgc ggtggccaag coordeaggt geocedeagg gotgagggge tgggottggg geagetggtg acageagatg gtggccctga tcactggtgc ctggacggcc tctgaagggg tctgtggggt cctggacggg toppoattoa tygoayyatt aaboppooto gyyttotyty tyytopayyo bypobotty totocactgo cocotygoca gaatgaggga bagtgaboca cocagggotg ggootygoto agaptopgto agagoogoag ggbaagttob tggbabgtob gaggtgggag gbtbbtotgb gotocaggag gotgtgootg goodcootto boggdaggaa boggdtgttgt bootttoott collitatoit objetticag ogooticaac tytgaagagg tgaactotto aaacacgott agbaaabagg bobgabtoob agggobgbat bogggatgtb tbaatagbtg tggbbttgab gtocacotog gaccoctgod coggacocag bocagttocc aatgggooot otgocogggg aggtgootag tgggagggan gagggnaaag toggggnoon habttgtttg gtgtbactgt gtgocagogg coactggogg gogaggotgt tocagggtgg aggoggggag ggttggasca caggoactga goggggacag aggagotgod tgagggtooc agototgoca tggagaaaac gotatotogo tgatgoagag gtgocoggoo babtogagot gggggtgagg gggotgotob coastsygoo gooagooooo atgaaggoog ogggoacogg cogtggooag ggagggoagg ggacaggoag tgggggccag caggggagac actaggettg geoceageac ceaggtggge atoggottgt gagotggago ogogggoagg gaggggggat gtoacgaggg ottggotaag gtgggagaco tgggcgggtg cgtcgggggg acgtctgcag cagaggcctg ggcagcaggc acacceptor typoagtycy aggaacyagy cyccabagog geogytagob bebeatttyb ccagootggo otggagcagg caggaaggoo ggggagaggg gtotggotgg ggootgggtg cagtoacago cacgagosca ggggtgggga ototggsesa costtoagae catgetsaag geocactige coaggeatge cogecacede ttesacegty cogtyctgea gegggtstae oggootggat gtgaaagaga gottggagad oocagagacd toggaacdtt dagotttgga agtgacgtcg gtggggtggg tggggggagc acaggctctg gagtcccgga agtgagcggg gagotaogot gagatotggg agacobootg cooccabood ggtabagggb baggbagaag occgaggtgt goodtgagtt aaagaaaccg toacaaagaa caaagggaga aggogggtto cagootgoac cacagoooto gogototgag gagocacotg ggggottoag coatgagggg tgacaggtgg baaaabgggb cagbtbbgtt babgtbgbtg tgbagbtgtb tbbggbbbtb patotopaga apgitotoap attoppaago tgaaabootg topppatgea apaccagetb addatoccot otgocagood otggogocca cogtocacad teogtototg ogggtttoat gastosaggg gsagsasasg agtggssest eetgssttig tistotetgtgt islasitysis. paptictgeau agtigtopopa gettopoppa tiggagoageb tigggopageb optoptitto adggdtgaad dgtattodad dgdaoggato agddtbaoga tgotgaodba gtobtdogob cagggacaea tyggcagett etgesettty teagtgatge tyetytygae atgygtytye aaatgtooot daggaboogo ottoagttot totggggada gaddbagagt ggagttgotg gtoaccocca coagoaggo acagggotoo gggtocccac gtototgcca acasttocta eticotytyt tiettyatee eegecateet attyagegty agaeagytea yaagettiga agatgggett tegtettgte ecagaaatee cacetetaag aatttaaett cagaaagaca aacgcggggg agctggtgta gggcccgtga cggggactgt gacgtaaata aaacaacaga octggadace accetagigt coccatgggg coggacgagg coacaccace againstagtg ettestgest ggegtetgeg seaeggagea ttsaggaege tggtgaseag ggageeagga ggtgggagca totgaggtg: aggtcacacg ggcaggaggt gtttgcaaga ggtattgcag

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Planted top supy

FIGURE 12

(-13) coagggga goaagcacco ggoooggeto cotoootgeo egtenengte decemberg tgeragedes baggatgggt genergageg ogtgeoggan gotggtgttg gototggogg coatgotogt ggtgoogsag goaggtaaga goossocaot obgeolocic togatgetyt ettoabggeg gyygtetety baggtegett geotyggage ttotootgoa gagtgoadgg gdagatdood dtadgadtoo otgagtgtoo tggatgggad obtabbogto bobaababay ggototgggg bobbacgggb toabagtgto aggaaactca ggggotggot tggatggggt gtobaggaga aggtgggbbb otgabbgbag ggbaaggbbb otgggagadd addgaaaggg tottggtott gggggtggga daggagtggg daatggggga gggggtbaca gotgggggto tototggago occatqaguo ccaqqeatca qaqtqaqbaq gggcaggott agogtggaco cotgtocagg acoggotota cocttoacga cotcoctggg gatoacagot ggoagggoag gtgagggtac boggggabbot baaggggttgb abagbbagbb gbaagagooo oggootbaab obabgotoga otbobbabggo obatbtgtgg gbatbtbatg begeacgggo tgectggeto teagoogago gtottoccto gtotgetgto tottggecag agoogoagoa ttaataotta otgtoaatag agaaagatgo agooccaggg gocaccggga gadacodago baggotggob atgaggotgo tgbagobobt bobtgobbg bobtbogobb cotcoccaago toggggtoty ggotgggcay gtgaggttoo otgggggtoto totcocatoty tggaagggag gotgggtoggt cagcagggot ggaggcaggg ggottococ agtggctoco agostgggss oggggggags tgogtotggs tgoaaggttt ggggggotggt ttgasoagaa tagocapoto ottgoatoty attottopyy godatycago ottggotoco otcapotyay baggeaggge chagggaeth toagebeach ogtoptobig tootboacge abgtobaagt tggggagato aagooottgg bagggabtgt gotttagtba bbagatgbab gtbbtgtggb oggggaaggo agoodtgcad agagbagott batgttaggg gabababbbb aaagtgatgg ggtggotggt ggtgggoapt tototggota baagatggag gobbaggtgg tobagbobaa ggagggcact gcacggagca gataaccaag ggcagtcagc otgggcaggg gaggggctgc otggggggga ggggttgsot gggttgggga ggggctgtot ggggcagggg aggagctgco tggggoggg gaggggotgt agggcoaggg aggggotgoo tggggotggg gaggggotgo tggggtgggg aggggetgee tgeggeggga geeggggegt gggagtgget ggttgggetg gbacabaggg gbagggotgt gagbtgtggg toggggtgga ggabtbaggg atoggbtggb tttatgggaa aggdagtdaa botggatoto tggaggbggo obetgtggtg gttobbagat gtdagdagga dotggotgga aaagddaggd agggodaggd dagagtgoga abdadagggo aggoodstog atgagoosty accatyotty tyggygotyg gybotoabot becaecteds papagagagt otpagatbag gatopaggga ggagototgg ggtoptgtga agggggogop obaabbbaaa obgggoagab aatggobggg ggtbobbaga gbobbgtggg tbggagbtgb stastassag astasatggg gttggttgggt gaggesttgs seggaggegg tggtsagsst gggggacott gggoggocat occagtatoa aoggocacac agettgogog goccagagte otgopposag potgosobao togopotgao ttaggatota gttogaaabt ggttotgtgt ttaggtttot gotaagtoad gootggaagg otocaagtgt gtoctoctaa caaagctggt ottogtoott otooaaggga tgtgtgggat ggggggaaat ococcottgg ggoggobaac goottitoot gattooatti totoooodat ooditgagaa ggaggoadda tooddgootg tragtrogggg aragggragg cogtgotygg ggragotrag ggotrocotyp tygaagstto batboogbag gotttobata gbattgagba ggagbggagg batotgbggb tgabggttgg ggtggootga goggotgggg aggagtooog goottggooa bagtgtgtog tgagggtgaa octgoagggo atggagacog coaccaagga coocacatgo ggotgoogca coagggatgt ggocaggtoc gtggttgggt togtggotgg cagocacato tagttoctca otgactocca ttocototto ocacagagas ocagggoost gtggagooga gotgggggaa tgcagggcad accatggatg geggtatgtg gecaggtteg ggggtggggg gtteetgaes aggetggagg ggctgga , (+2733)